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(54) **Optimum fixed angle centrifuge rotor.**

(57) A centrifuge rotor and method for gradient density separation which supports a generally cylindrical volume of sample solution with its axis inclined to the spin axis at an angle which is optimized for maximum separation efficiency while reducing contamination by undesirable centrifugates upon reorientation of the desirable centrifugates. The optimum angle is determined based on the relationship $\theta = \tan^{-1} D/15L)^{0.5}$ where D and L are respectively the diameter and length of the cylindrical volume of the sample solution and θ is the angle of inclination.

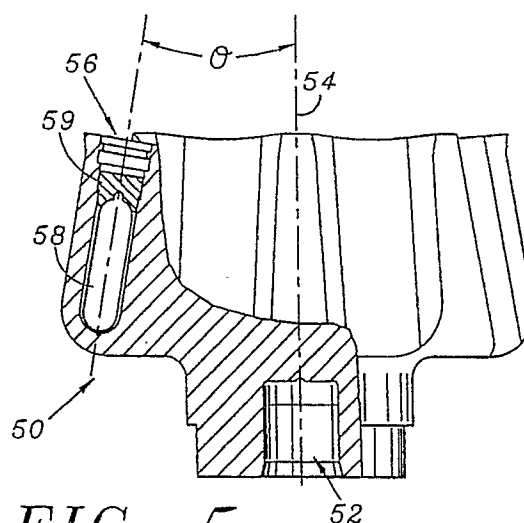


FIG. 5

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Patent Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 31 0738

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	FR-A-2 317 966 (E.I. DU PONT DE NEMOURS AND COMPANY) * page 5, line 6 - page 8, line 35 * - - -	1-15	B 04 B 5/04
A	FR-A-2 435 714 (CLINICON INTERNATIONAL G.M.B.H.) * page 1, line 23 - line 25 * - - -	1,10	
A	WO-A-8 505 567 (BECKMAN INSTRUMENTS INC.) * page 6, paragraph 3 - page 10, paragraph 1; figures * - - -	1,10	
A	US-A-4 509 940 (E.I. DU PONT DE NEMOURS AND COMPANY) * column 3, line 9 - column 6, line 31 * - - - - -	1,10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 04 B
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		03 September 91	OECHSNER DE CONINCK
CATEGORY OF CITED DOCUMENTS			
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